FIG. 1

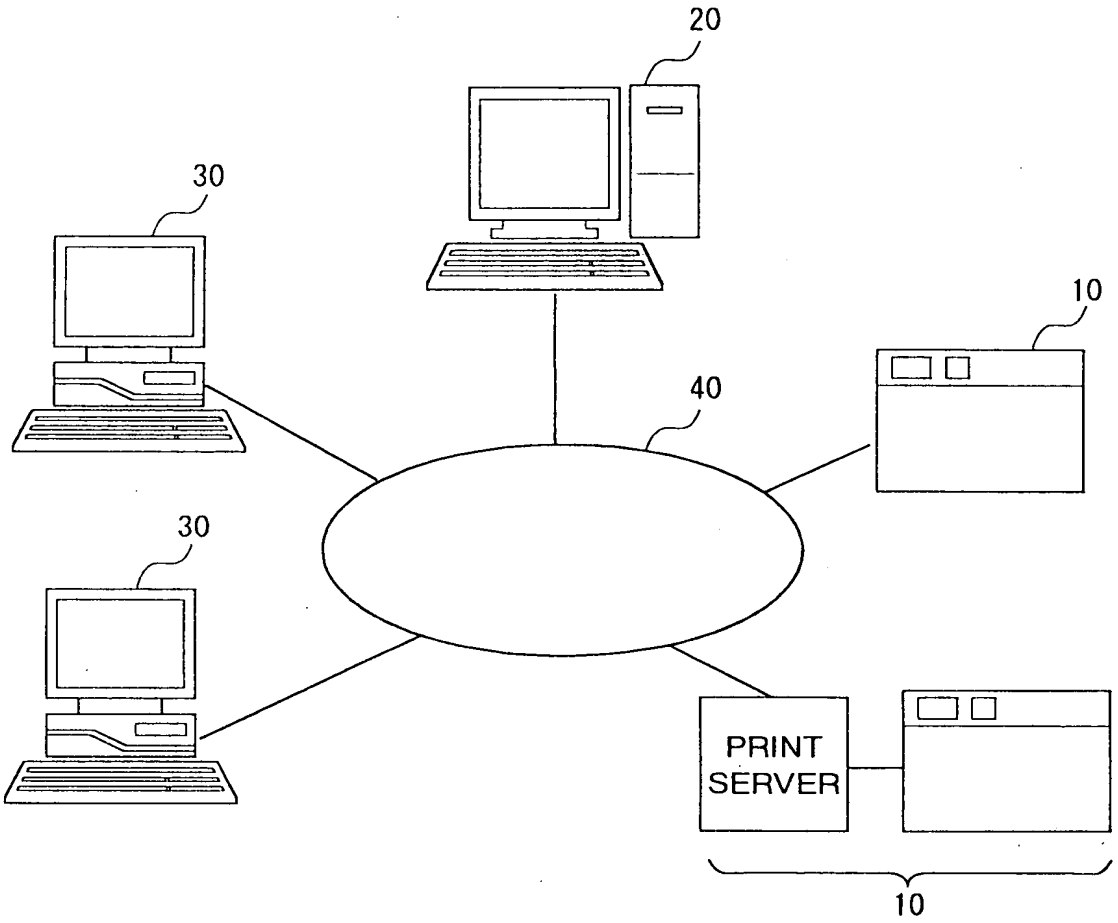
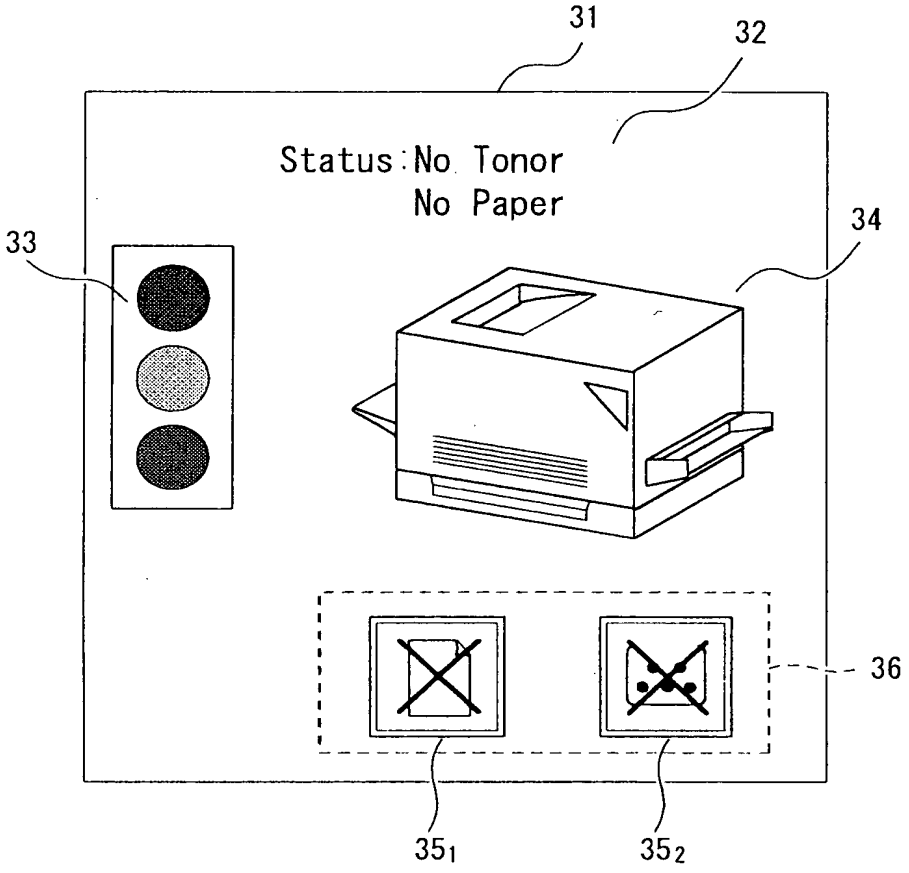


FIG. 2



DOCKET ESTA60

FIG. 3

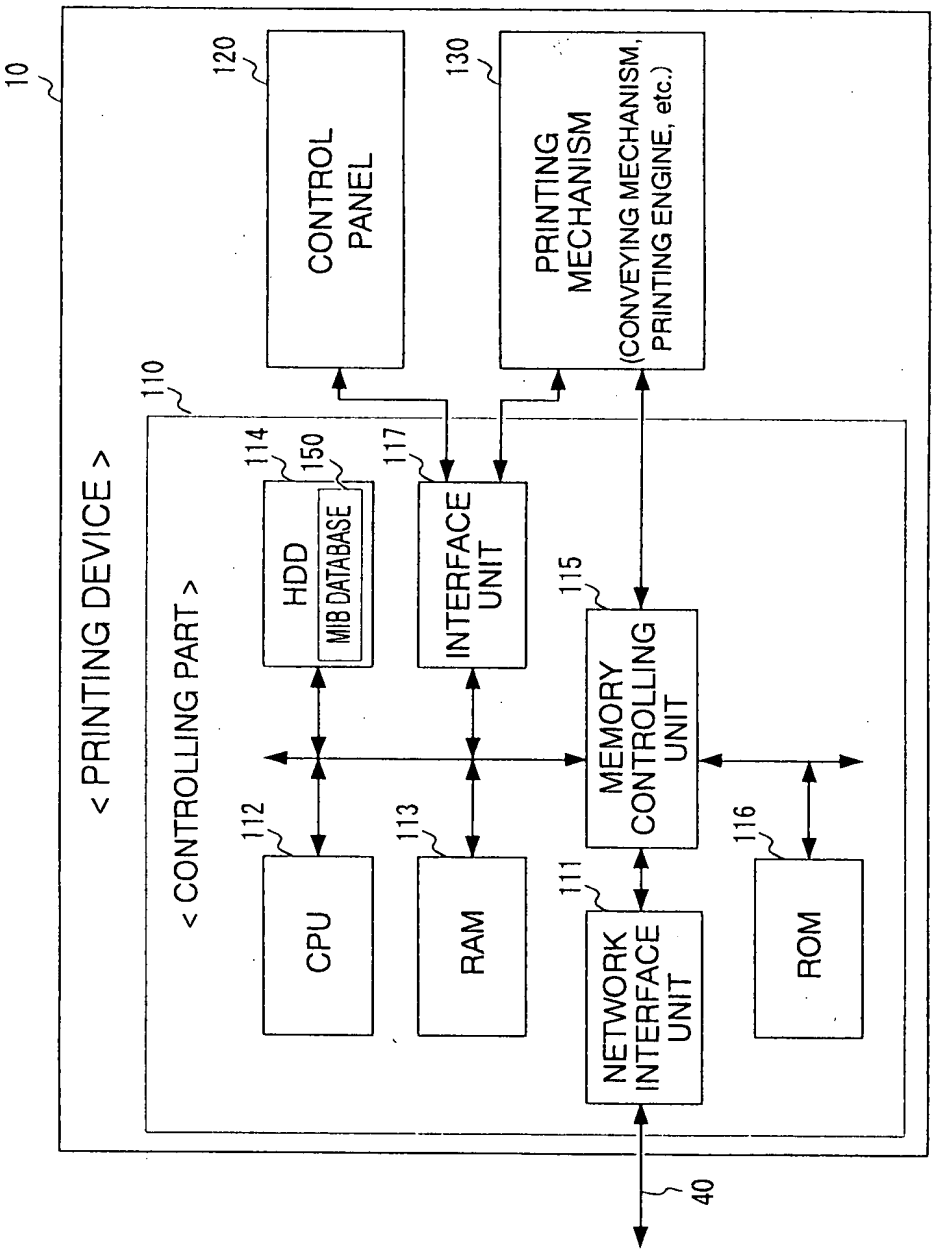


FIG. 4

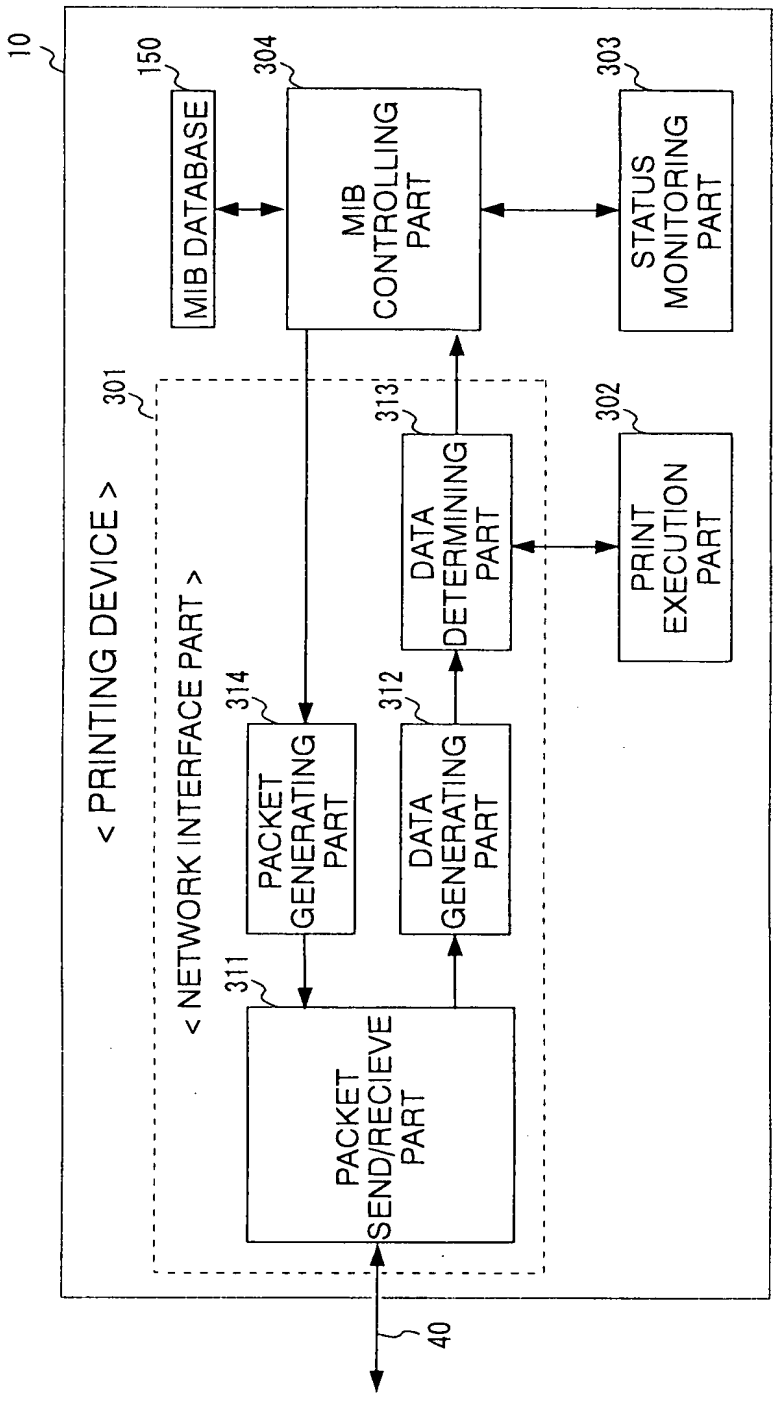

10
< PRINTING DEVICE >
301
< NETWORK INTERFACE PART >
150
MIB DATABASE
304
MIB CONTROLLING PART
303
STATUS MONITORING PART
313
DATA DETERMINING PART
302
PRINT EXECUTION PART
314
PACKET GENERATING PART
312
DATA GENERATING PART
311
PACKET SEND/RECIEVE PART
40

FIG. 5

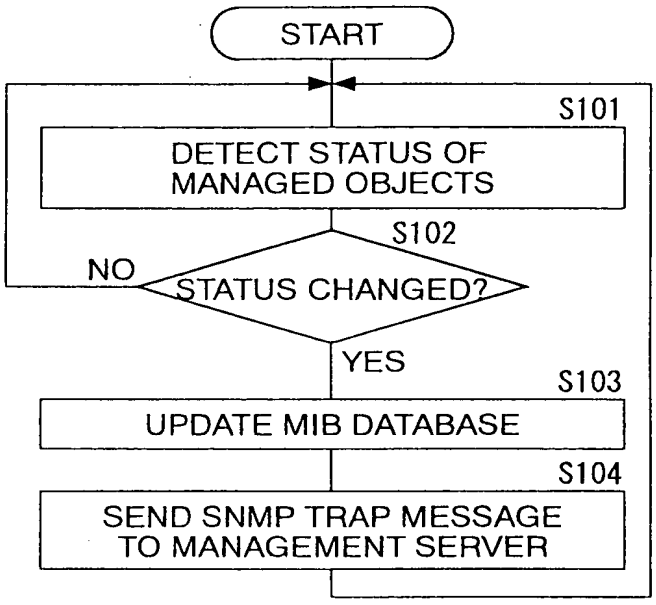

START
S101
DETECT STATUS OF MANAGED OBJECTS
S102
NO
STATUS CHANGED?
YES
S103
UPDATE MIB DATABASE
S104
SEND SNMP TRAP MESSAGE TO MANAGEMENT SERVER

FIG. 6

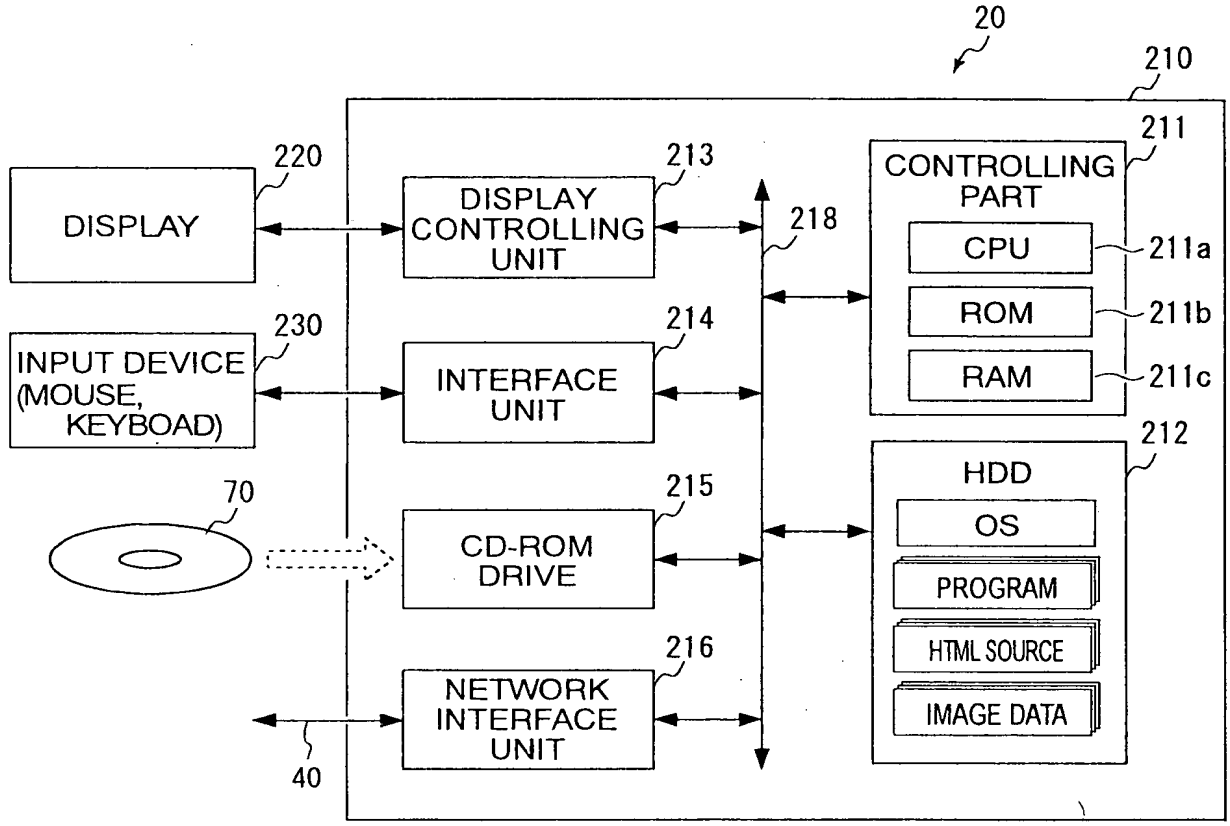

20
210
211
CONTROLLING PART
CPU
211a
ROM
211b
RAM
211c
212
HDD
OS
PROGRAM
HTML SOURCE
IMAGE DATA
218
220
DISPLAY
213
DISPLAY CONTROLLING UNIT
230
INPUT DEVICE (MOUSE, KEYBOAD)
214
INTERFACE UNIT
70
215
CD-ROM DRIVE
216
NETWORK INTERFACE UNIT
40

FIG. 7

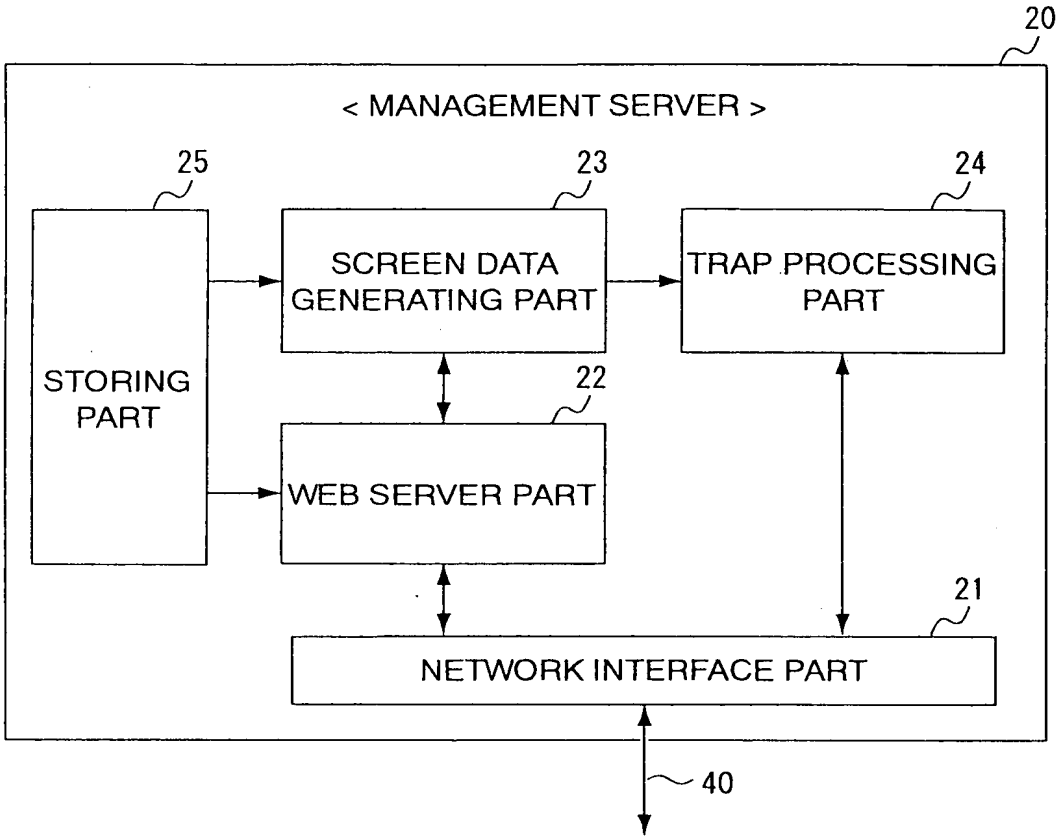

20
< MANAGEMENT SERVER >
25
23
24
STORING PART
SCREEN DATA GENERATING PART
TRAP PROCESSING PART
22
WEB SERVER PART
21
NETWORK INTERFACE PART
40

FIG. 8

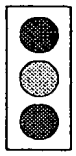
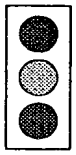
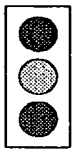
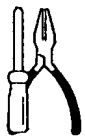
prtAlertSeverityLevel	prtAlertTrainingLevel	STATUS LEVEL IMAGE
other		 (GREEN SIGNAL) 33a
warning		 (YELLOW SIGNAL) 33b
critical	NOT fieldservice	 (RED SIGNAL) 33c
critical	fieldservice	 33d
communication error		33e

FIG. 9

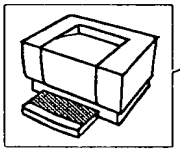
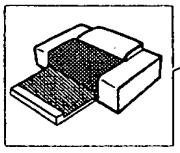
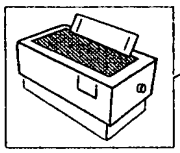
prtMakerTech	CATEGORY	PRINTER IMAGE
eletrophotographicLaser, electrophotographicLED, electrophotographicOther, pen, thermalTransfer, thermalDiffusive, thermalOther, electrostatic, electroerosion, photographicMicrofiche, photographicImagesetter, photographicOther, ionDeposition, eBeam, typesetter	SPECIFIC DEVICE	SPECIFIC IMAGE
	Page	 34a
inkjetAqueous, inkjetsolid, inkjetOther	IJP	 34b
impactMovingHeadDotMatrix9pin, impactMovingHeadDotMatrix24pin, impactMovingHeadDotMatrixOther, impactMovingHeadFullyFormed, impactBand, impactOther	SIDM	 34c

FIG. 10

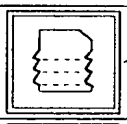
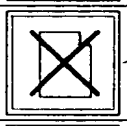
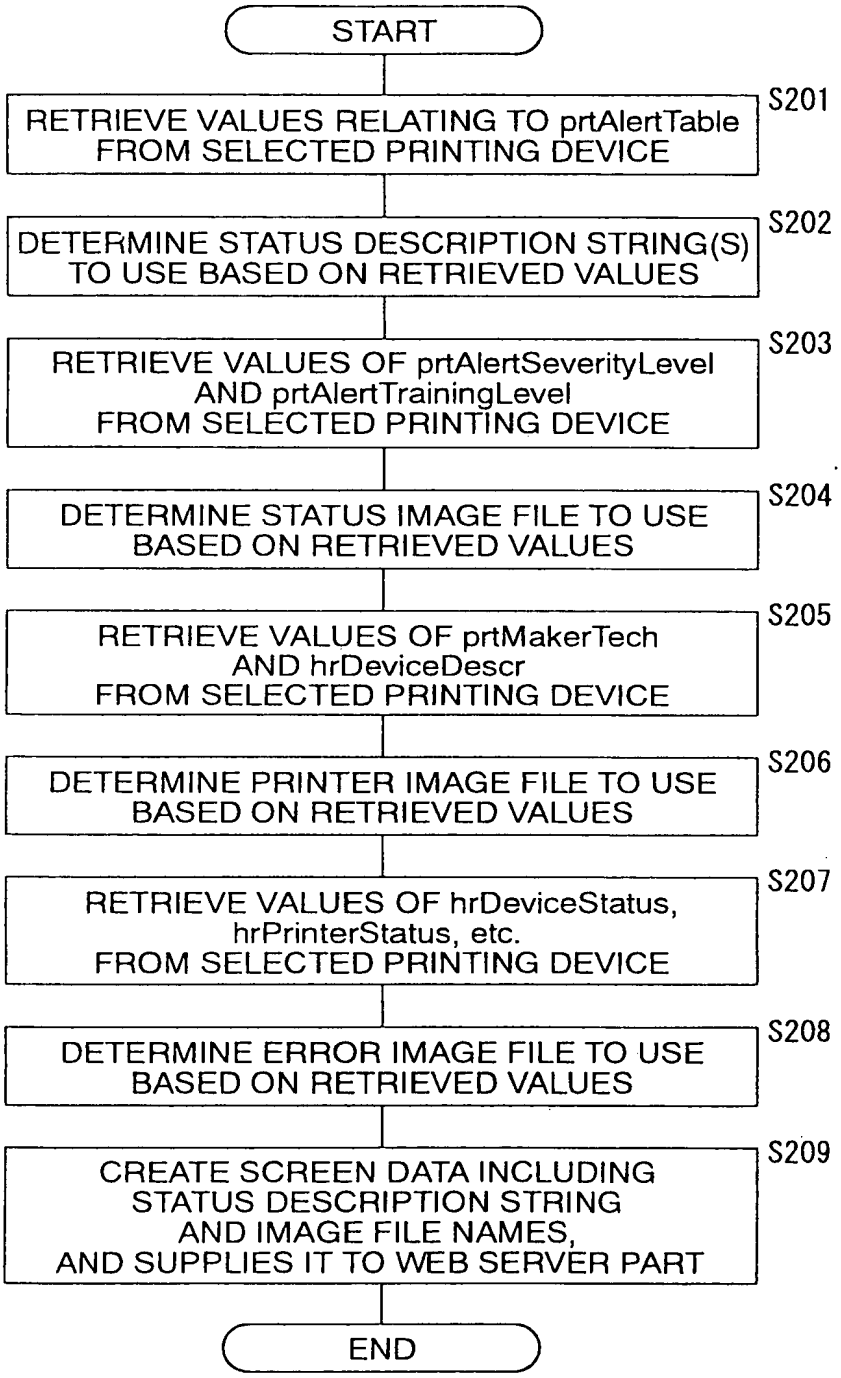
Status	hrPrinter Status	hrPrinterDetected ErrorState	CATEGORY	ERROR IMAGE
down	other	jammed	PAPER JAMMED	 35a
		noPaper	NO PAPER	 35b
		noToner	NO TONER / NO INK	35c 35d
		coverOpen	COVER OPEN	35e
down	other	OTHERS	OTHER ERRORS	35f

FIG. 11



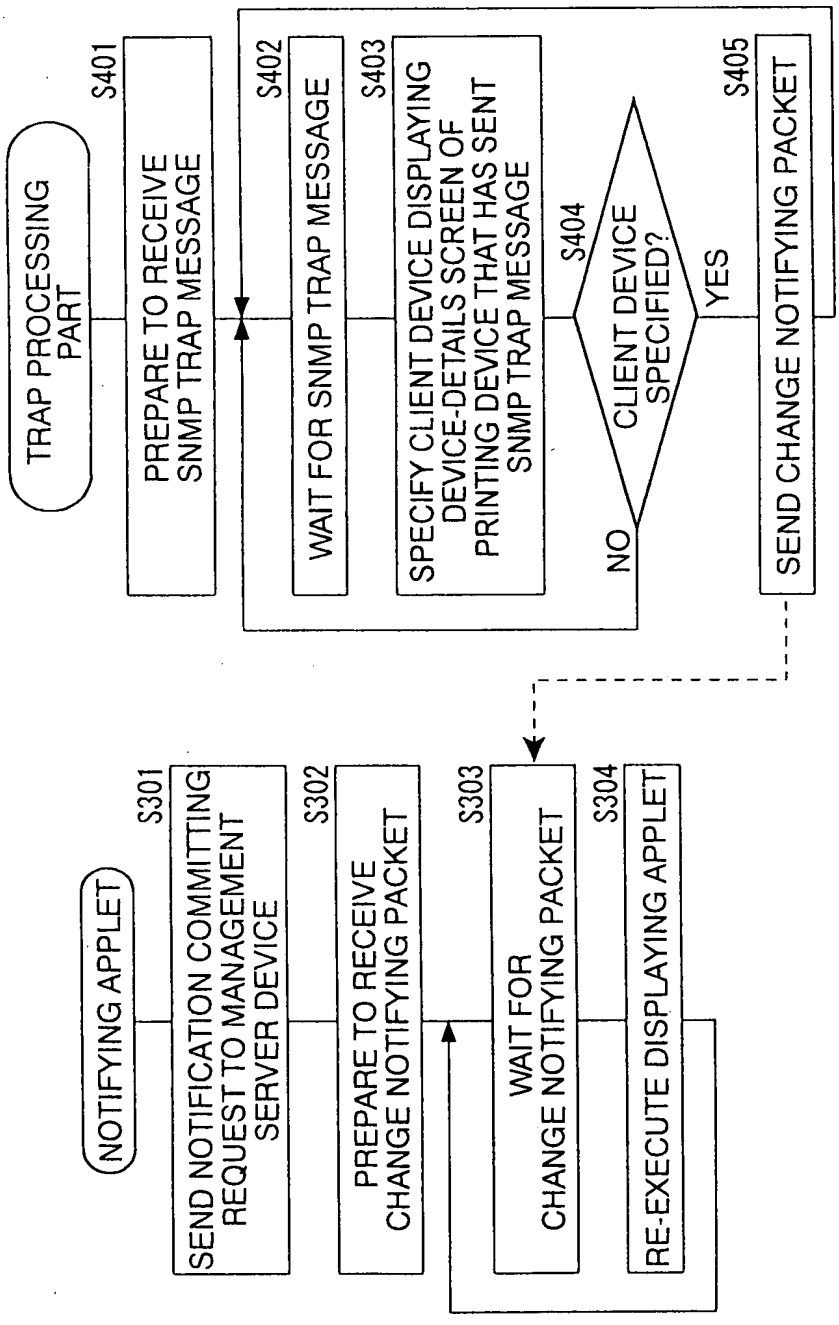
0030404-0957-US0

FIG. 12

prtAlertGroup	prtAlertCode	STATUS DESCRIPTION STRING
generalPrinter	coverOpen	Cover Open
	coverClosed	Cover Closed
	interlockOpen	Interlock Open
	interlockClosed	Interlock Closed
	configurationChange	Printer Configuration Changed
	jam	Paper Jammed
	doorOpen	Cover Open
	doorClosed	Cover Closed
	powerUp	Error Occurred
	powerDown	Error Occurred
	other/unknown	Error Occurred
cover	coverOpen	Cover Open
	coverClosed	Cover Closed
	interlockOpen	Interlock Open
	interlockClosed	Interlock Closed
	configurationChange	Printer Configuration Changed
	jam	Paper Jammed
	other/unknown	Error Occurred
input	coverOpen	Paper Feeder Cover Open
	coverClosed	Paper Feeder Cover Closed
	interlockOpen	Paper Feeder Interlock Open
	interlockClosed	Paper Feeder Interlock Closed
	configurationChange	Paper Feeder Configuration Changed
	jam	Paper Jammed
	inputMediaTrayMissing	Paper Feeding Error Occurred
	inputMediaSizeChange	Paper Size Altered
	other/unknown	Paper Feeding Error Occurred
output	coverOpen	Cover Open
marker	coverOpen	Cover Open
markerSupplies	coverOpen	Cover Open
markerColorant	coverOpen	Cover Open
mediaPath	coverOpen	Cover Open
interpreter	configurationChange	Printer Configuration Changed

08604 E5F560

FIG. 13


TRAP PROCESSING PART
S401
PREPARE TO RECEIVE SNMP TRAP MESSAGE
S402
WAIT FOR SNMP TRAP MESSAGE
S403
SPECIFY CLIENT DEVICE DISPLAYING DEVICE-DETAILS SCREEN OF PRINTING DEVICE THAT HAS SENT SNMP TRAP MESSAGE
S404
CLIENT DEVICE SPECIFIED?
NO
YES
S405
SEND CHANGE NOTIFYING PACKET
(B) MANAGEMENT SERVER
NOTIFYING APPLET
S301
SEND NOTIFICATION COMMITTING REQUEST TO MANAGEMENT SERVER DEVICE
S302
PREPARE TO RECEIVE CHANGE NOTIFYING PACKET
S303
WAIT FOR CHANGE NOTIFYING PACKET
S304
RE-EXECUTE DISPLAYING APPLET
(A) CLIENT DEVICE